



ANT1m ATGGGTGATCAGCTTGGAGCTTCTAAAGGACTTCCTGGCCGGGGCGTCGCCGCTGCCGTCTCCAAGACCGCGGTGCG 80
 ANT2m ATGACAGATCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACGGCGGTAGC 80
 ANT3m ATGACGAGACAGGOCATCTCCTTCGCCAAGACTTCTTGGCCGAGGCATCGCCGCGCCATCTCCAAGACGGCGGTGCG 80

ANT1m CCCCATCGAGAGGGTCAAACTGCTGCTGCAGGTCCAGCATGCCAGCAACAGATCACTGCTGAGAAAGCAGTACAAAGGGA 160
 ANT2m CCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCA 160
 ANT3m TCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCAAGCCAGCAAGCAGATCGCCGCGCAAGCAGTACAAAGGCA 160

ANT1m TCATTGATTTGTGGTGAATCCCTAAGGAGCAGGGCTCTCTCTCTCTGGAGGGTAACCTGGCCAACGTGATCCGT 240
 ANT2m TTATAGACTGCGTGGTCCGTATCCCAAGGAGCAGGAAGTTCTGTCTCTCTGGCGGGTAACCTGGCCAATGTCATCAGA 240
 ANT3m TCTGAGCTGCAATGTCCTCATCCCCAAGGAGCAGGGCGTCTGTCTCTCTGGAGGGTAACCTGGCCAACGTATTCG 240

ANT1m TACTTCCCACCCAAGCTCTCAACTTCGCTTCAAGGACAAGTACAAGCAGCTCTTCTTGGGGGTGTGGATCGGCATTA 320
 ANT2m TACTTCCCACCCAAGCTCTCAACTTCGCTTCAAGGATAAATACAAGCAGATCTTCTGGGTGGTGTGGACAAGAGAAC 320
 ANT3m TACTTCCCACCCAAGCTCTCAACTTCGCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGTGGTGGACAAGCAAC 320

ANT1m GCAGTTCTGGCGTACTTTGCTGGTAACCTGGGTCCGGTGGCGCGTGGGGCCACCTCCCTTTGCTTTGTATACCCGC 400
 ANT2m CCAGTTTGGGTCTACTTTGCAGGGAATCTGGCATCGGTGGTGGCGAGGGGCCAATCCCTGTGTTTGTGTACCCGC 400
 ANT3m GCAGTTCTGGGTACTTTGCGGCAACCTGGGTCCGGTGGTGGCGGGCGGTAACCTCCCTTTGCTTTGTGTACCCGC 400

ANT1m TGGATTTTGTAGGACCAAGGTGGGTGCTGATGTGGGAGGC---GCGCCAGCGTGAAGTTCCATGGTCTGGGCGACTGT 477
 ANT2m TTGATTTTGCCTTACCCGTCTAGCAGCTGATGTGGTAAGCTGGAGCTGAAGGCAATCCGAGGCCTCGGTGACTGC 480
 ANT3m TGGATTTTGCAGAACCCGCTGGCAGCGGAGGTGGTAAGTGAAGGCAAGAGCGGAGTTCCGAGGCCTGGGAGACTGC 480

Fig. 1A



ANT1m ATCATCAAGATCTTCAAGTCTGATGGCTGAGGGGCTGTACCAGGTTTCAACGTCTCTGTCCAAGGCATCATATCTA 557
 ANT2m CTGGTTAAGATCTACAAATCTGATGGATTAGGGCCTGTACCAAGGCTTTAACGTCTCTGTGCAGGGTATATCATCTA 560
 ANT3m CTGGTAAGATCAACCAAGTCCAGGGCATCCGGGGCCTGTACCAGGGCTTCAGTCTCCGTGCAGGGCATCATCATCTA 560

ANT1m TAGAGTGCCTACTTCGGAGTCTATGATACTGCCAAGGGATGCTGCCGTGACCCCAAGAACGTGCACATTTGTGAGCT 637
 ANT2m CCGAGCCGCTACTTCGGTATCTATGACTGCAAGGGAATGCTTCGGATCCCAAGAACAATCACATCGTCAATGAGCT 640
 ANT3m CCGGCGGCTACTTCGGCTGTATGATAAGCCCAAGGGATGCTCCCGACCCCAAGAACACGCACATCGTGTGAGCT 640

ANT1m GGATGATTCGCCAGAGTGTGACGGCAGTCCGAGGGTGTGTCTACCCCTTGACACTGTTGGTCCGTAGAAATGATGATG 717
 ANT2m GGATGATCGACAGACTGTCACTGCTGTGCGGGGTGACTTCCTATCCAATTGACACTGTTCCCGCCGCATGATGATG 720
 ANT3m GGATGATCGGCAGACCTGACGGCCTGCGCGGCTGTGTCTACCCCTTGACACGTGCGCGGCATGATGATG 720

ANT1m CAGTCCGGCCGAAAGGGCGGATATATGTACACGGGACAGTTGACTGCTGGAGGAAGATTGCATAAGAGCGAAGGAGC 797
 ANT2m CAGTCAAGGGCGAAAGGAATGACATCATGTACACAGGCACGCTTGACTGCTGGCGGAAGATTGCTGATGAAGGAGG 800
 ANT3m CAGTCCGGGCGAAAGGAGCTGACATCATGTACACGGGCACGCTGACTGTTGGAGGAAGATCTTAGAGATGAGGGGG 800

ANT1m CAAGGCCTTCTTCAAAAGTGCTGGTCCAATGTCTGAGAGGCATGGCGGGTGCTTTTGTATTGGTGTGTATGATGAGA 877
 ANT2m CAAGCTTTTCAAGGGTGCAATGGTCCAATGTCTGAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTATGATGAAA 880
 ANT3m CAAGGCCTTCTTCAAGGGTGCTGGTCCAATGTCTGAGAGGCATGGGGGGCTTTGTGCTGGTCTGTACAGAGAGC 880

ANT1m TCAAAATATGTCTAA 894
 ANT2m TCAAGAAGTACATAA 897
 ANT3m TCAAGAAGGTATCTAA 897

Fig. 1B



HANT1p	MDHASF LD KDFLAG AAAV SKTAVAPIERVKLLQVQHASKQISAEKQ	50
HANT2p	MTDAVVSFAKDFLAGGVAAATSKTAVAPIERVKLLQVQHASKQITADKQ	50
HANT3p	MTEQATSF AKD LAGGT AAA ISKTAVAPIERVKLLQVQHASKQITADKQ	50
HANT1p	YKGIIDCVVRIPKEQG LS FWRG N LANVIRYFPTQALNFAFKDKYKQ IFL	100
HANT2p	YKGIIDCVVRIPKEQEVLSFWRG N LANVIRYFPTQALNFAFKDKYKQIFL	100
HANT3p	YKGI VDQ IVRIPKEQGVLSFWRG N LANVIRYFPTQALNFAFKDKYKQIFL	100
HANT1p	GGVD PKQ FWRYFAGNLSGGAAGATSLCFVYPLDFARTRLAADVGR RA	149
HANT2p	GGVD KRTQ FW LY FAGNLSGGAAGATSLCFVYPLDFARTRLAADVGR KAGA	150
HANT3p	GGVDKHTQFWRYFAGNLSGGAAGATSLCFVYPLDFARTRLAADVGR SGT	150
HANT1p	REF FG LGDC IT KIFKSDG IR GLYQGFNVSVQGIIYRAAYFGVYDTAKG	199
HANT2p	EREF R GLGDC LV KIYKSDG IR GLYQGFNVSVQGIIYRAAYFG Q YDTAKG	200
HANT3p	EREF R GLGDC LV KIYKSDGIRGLYQGF S SVQGIIYRAAYFGVYDTAKG	200
HANT1p	MLPDPKN TH IV SW MIAQ SV TAVAGL TS YPFDTVRRRMMQSGRKGADIM	249
HANT2p	MLPDPKNTHIV SW MIAQ SV TAVAGL TS YPFDTVRRRMMQSGRKG TD IM	250
HANT3p	MLPDPKNTHIV SW MIAQ SV TAVAG VS YPFDTVRRRMMQSGRKGADIM	250
HANT1p	YTGTVD C WRKIA Q DEGGAFFKGAWSNVL R GMGGAFLVLYDEIKKY V	298
HANT2p	YTGT D CWRKIA R DEGGKAFFKGAWSNVL R GMGGAFLVLYDEIKKY T	299
HANT3p	YTGTVD C WRKI R DEGGKAFFKGAWSNVL R GMGGAFLVLYDE IK KVI	299

Fig. 2



Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

"REPLACEMENT SHEET"

Express Mail No. EV336618751US

Inventor(s): Christen M. Anderson et al.

Serial No. 09/185,904

Docket No. 660088.420

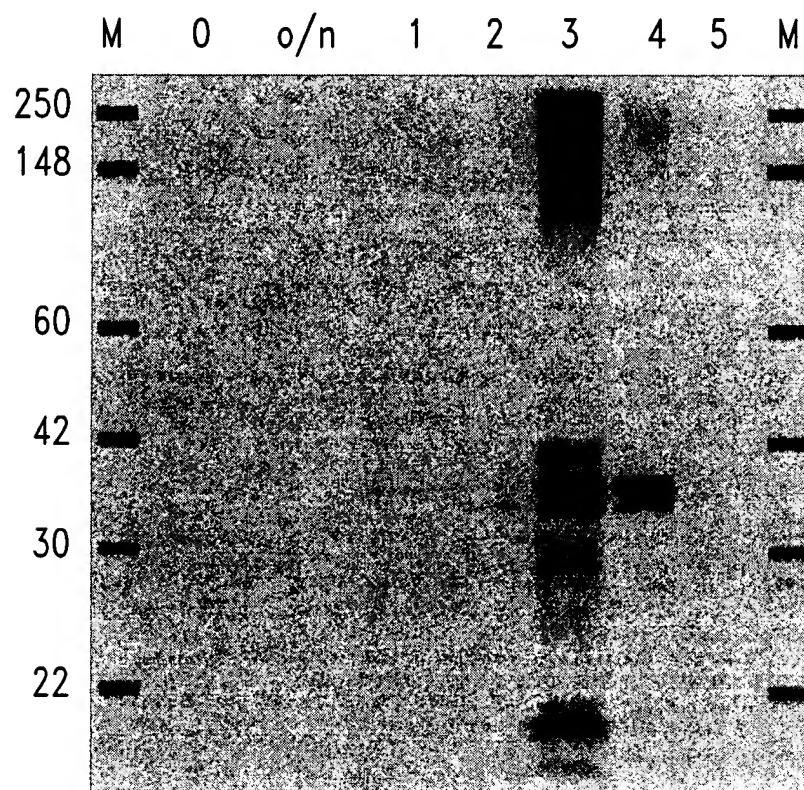


Fig. 3



Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

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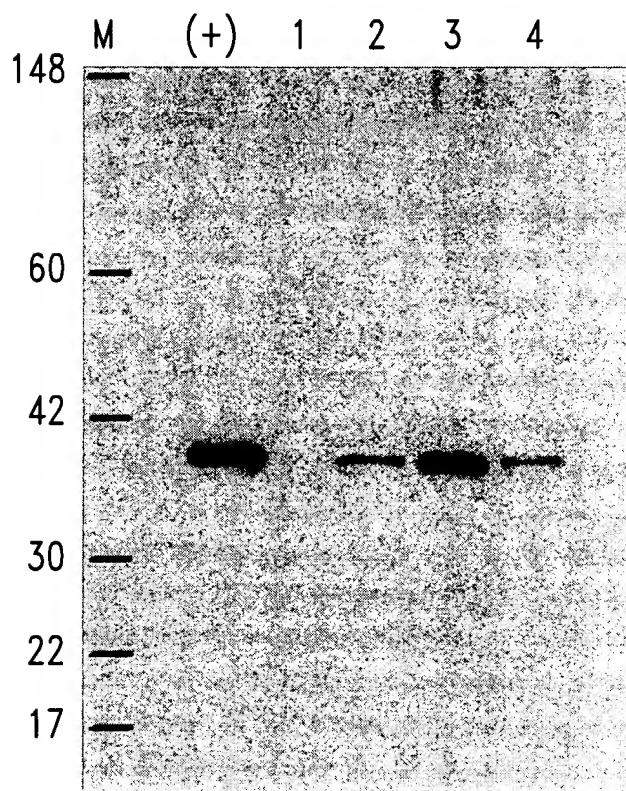


Fig. 4

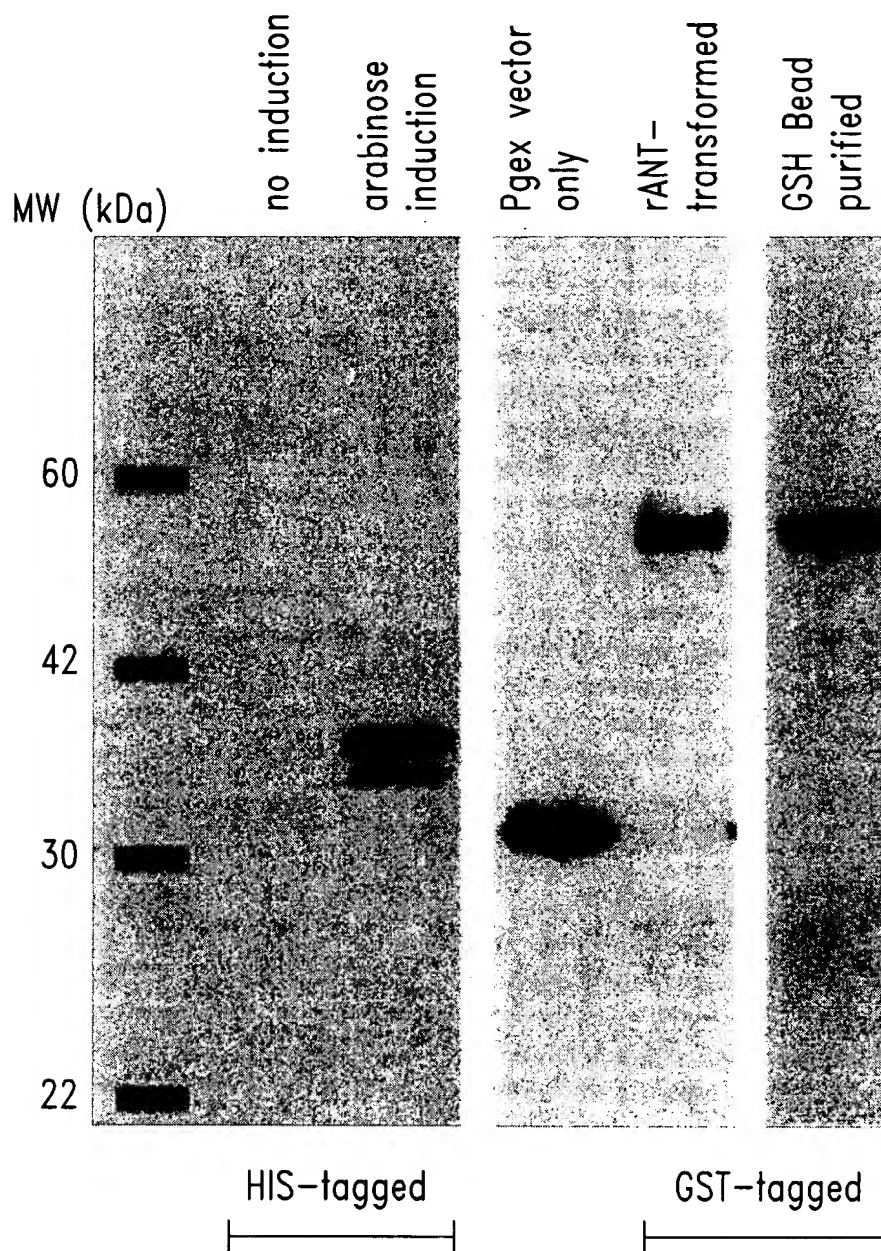


Fig. 5



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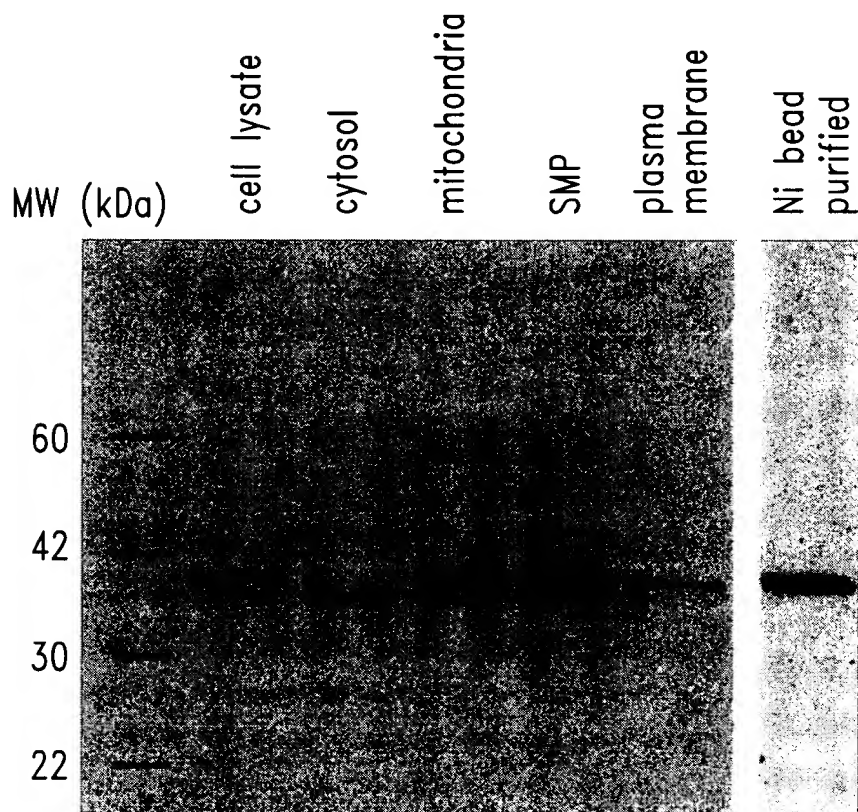


Fig. 6

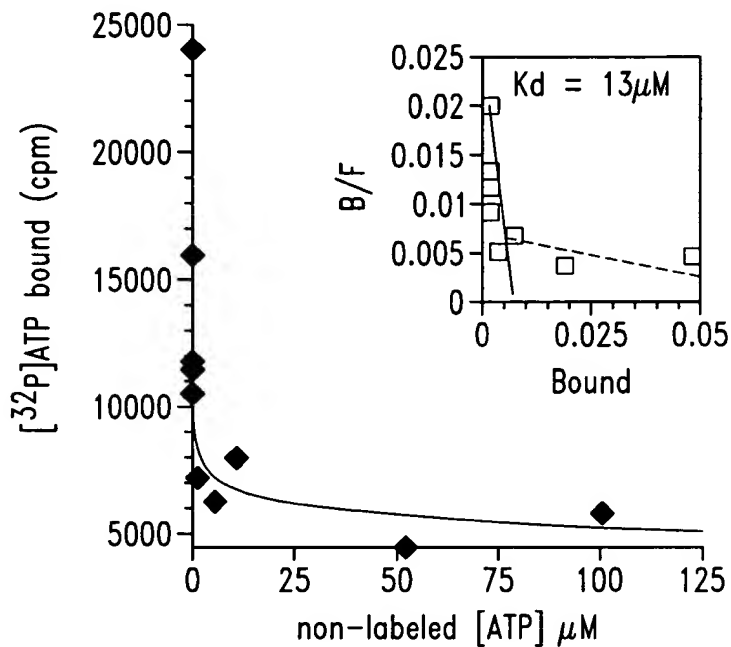


Fig. 7

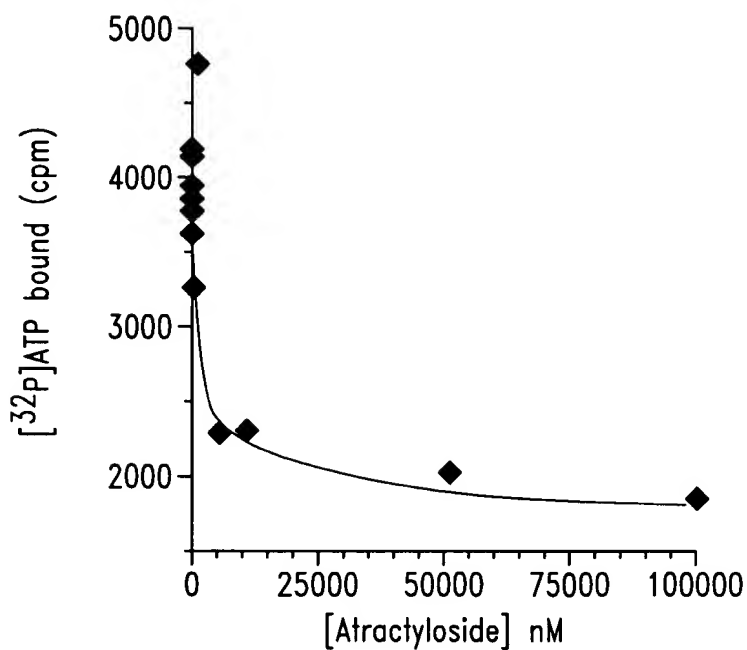


Fig. 8

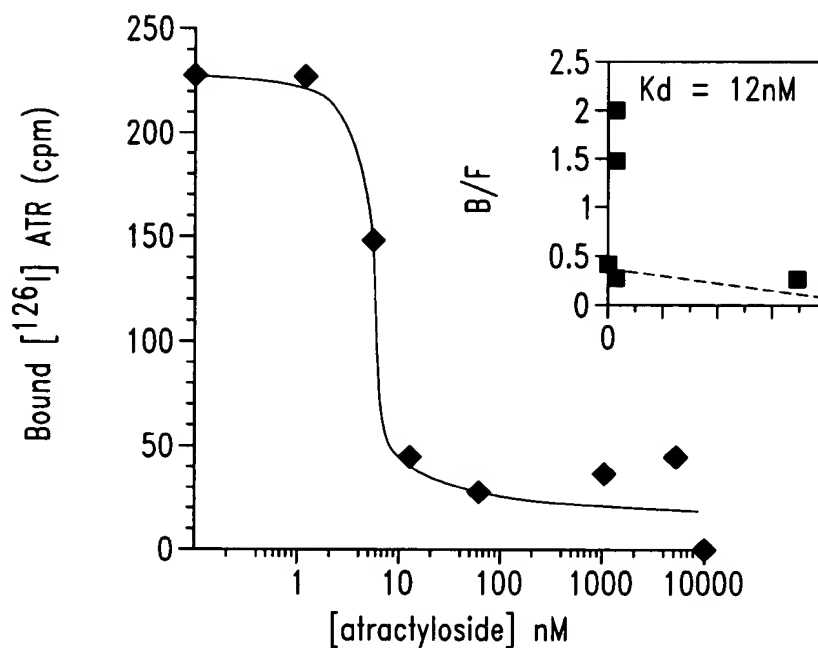


Fig. 9

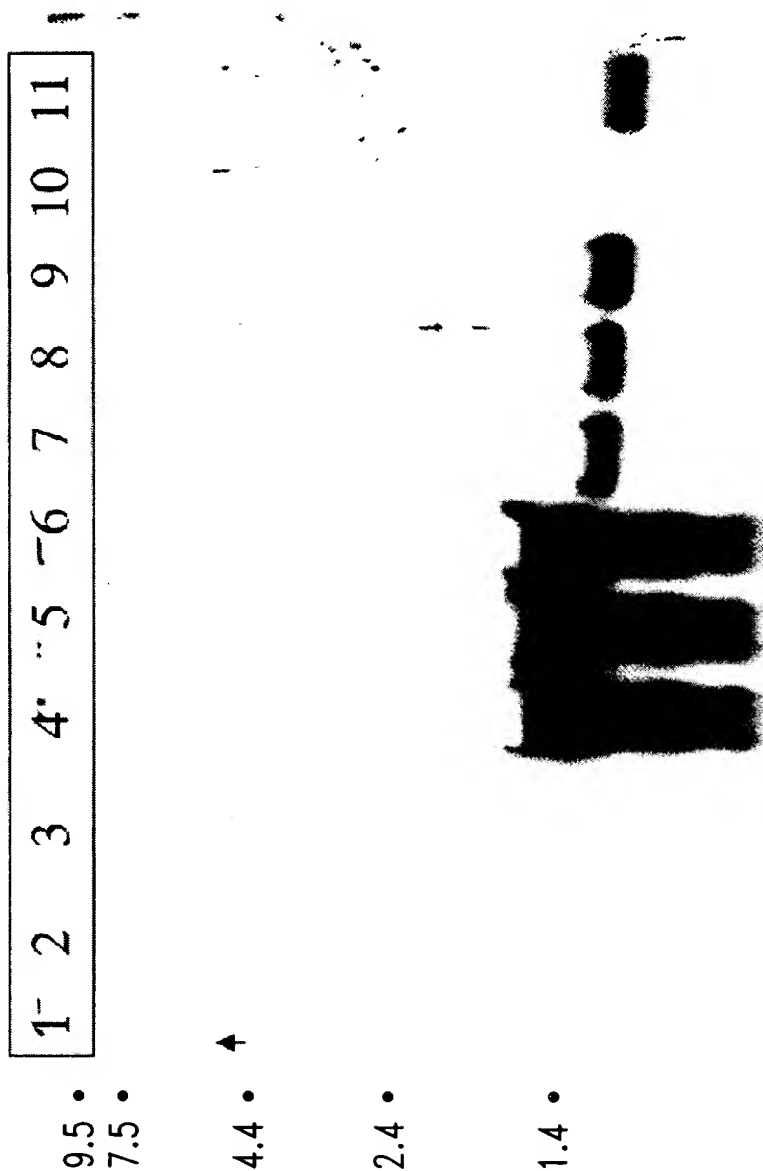


Fig. 10